


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of)	
)	Examiner: Nguyen (anticipated)
Rudolf Zeller et al)	
)	Art Unit: 2858
Serial No: Not Yet Assigned)	
)	Attorney Docket: DCI-5D4
Filed: November 17, 2003)	
)	Date: November 17, 2003
For: ORIENTATION SENSOR ESPECIALLY)	
SUITABLE FOR USE IN AN)	
UNDERGROUND BORING DEVICE)	

CERTIFICATE OF MAILING: I hereby certify that this correspondence is being faxed to: Examiner Nguyen at the United States Patents and Trademark Office on **November 17, 2003**.

Signed:


 Jay R Beyer

Commissioner of Patents
 Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a Form PTO-1449 listing references cited from the parent application Serial numbers **09/547,120** filed on **April 11, 2000**; **08/564,587** file on **November 29, 1995**; **08/986,294** filed on **April 16, 1997**; and **10/132,654** filed on **April 24, 2002** associated with this application. Copies of the references cited may be found in the parent applications. It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

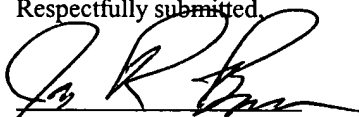
Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

- X** 37 C.F.R. §1.97(b).
 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:
 A certification pursuant to 37 C.F.R. §1.97(e) or
 A check for \$ for the fee under 37 C.F.R. § 1.17(p).
 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:
 (1) A certification pursuant to 37 C.F.R. §1.97(e);
 (2) A petition requesting consideration of the Information Disclosure Statement; and
 (3) A check for \$ for the fee under 37 C.F.R. §1.17(i) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. **19-1685** (Order No. **DCI-5D4**).

Respectfully submitted,


 Jay R Beyer
 Registration No. 39,907

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No. DCI-5D4	Serial No.: Not Yet Assigned
	Applicants: Rudolf Zeller, et. al. Filing Date November 17, 2003	Group 2858

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
		2,338,811	1/1944	Hasbrook	33	366.22	
		3,096,591	7/1963	Higgins et al	33	366	
		3,253,280	5/1966	Feyling	33	366.21	
		3,492,951	2/1970	Erspamer et al	33	366X	
		3,478,437	11/1969	Cothran	33	366.22	
		3,839,904	10/1974	Stripling et al	33	366.15X	
		4,028,815	6/1977	Buckley	33	366.21	
		4,167,818	9/1979	Cantarella	33	366.22	
		4,567,666	2/1986	Neis et al	33	366X	
		4,672,753	6/1987	Kent	33	366.21	
		4,674,579	6/1987	Geller et al	175	45	
		4,714,118	12/1987	Baker et al	175	26	
		4,779,353	10/1988	Lopes et al	33	366X	
		4,787,463	11/1988	Geller et al	175	45	
		4,806,869	2/21/1989	Chau et al			
		4,846,954	7/1989	Ryan et al	33	366.22	
		4,881,083	11/14/1989	Chau et al			
		5,155,442	11/1992	Mercer	324	690	
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		5,172,481	12/1992	Wiseman et al	33	366	
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		5,428,902	7/1995	Cheah	324	707	
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		5,625,955	5/1997	Han	33	366.15	
		5,630,280	5/1997	Crossan	33	366.11	
		5,757,197	5/1998	O'Neil	324	446	

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
		Signal Systems International, Inc., Metal Can Switch, March 7, 1997, Signal Systems International, Inc. technical specification sheet
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.